



MARINE & OFFSHORE

INDUSTRY

ENVIRO-CLEAN

DEFENCE & FUEL

UTILITY

DESMI Quotation

Reference: PS/IND/CF Pumps/RT Water & Brine Pumps/FLS

Quotation no.: QL009951_1

Date: 9/3/2024

CUSTOMER DETAILS:

FLEMING LIFESCIENCES PVT LTD
PLOT NO: 67-71 & 76-80,
KADECHUR INDUSTRIAL AREA,
YADAGIR TALUK & DISTRICT,
585221 KARNATAKA, INDIA

PROVEN TECHNOLOGY

DESMI

INVOICE ADDRESS:

FLEMING LIFESCIENCES PVT LTD
PLOT NO: 67-71 & 76-80,
KADECHUR INDUSTRIAL AREA,
YADAGIR TALUK & DISTRICT,
585221, KARNATAKA
INDIA









DELIVERY ADDRESS:

FLEMING LIFESCIENCES PVT LTD
PLOT NO: 67-71 & 76-80,
KADECHUR INDUSTRIAL AREA,
YADAGIR TALUK & DISTRICT,
585221, KARNATAKA
INDIA

Date:
9/3/2024

We thank you for your inquiry and are pleased to quote you as stated below.

Commercial Terms

	Delivery Time	Serial No – 1,2 & 3: - Delivery time Will be 8 – 9 Weeks Serial No – 4: - Delivery time will be 13 – 14 Weeks (we will update exact Leadtime ones we get from our internal team)
	Delivery Terms	EXWORKS HYD FACTORY
	Shipping Method	MOST COST EFFECTIVE WAY
	Payment	30% Advance and 70% against PI before dispatch: BANK: ICICI Bank Ltd, IFSC CODE: ICIC0000008. SWIFT: ICICINBBCTS BANK ACCOUNT: 000805024645, GSTIN: 36AAICD2880J1ZD
	Valid Until	10/3/2024
	Liability	WARRANTY: - 12 MONTHS FROM DATE OF COMMISSIONING OR 18 MONTHS FROM THE DATE OF SUPPLY WHICH EVER COME EARLIER IS APPLICABLE.
	Sales Terms	The DESMI standard Terms and Conditions (the "Conditions") apply to this quotation. The Conditions can be found on www.desmi.com under the section "Customer Support - General terms and conditions. The Conditions can also be provided by DESMI at request.
	Comments	HSN Code for Pumps: 84137010

We trust that you find our quotation of interest and we look forward to receiving your valued purchase order

Best regards

Santhosh Kumar Magapu
DESMI India Private Ltd.
E-mail: sakm@desmi.com / Phone: +91 91000 51632

MARINE & OFFSHORE

DESMI INDIA PRIVATE LIMITED
(Formerly DESMI India LLP)
Plot.No 4/20 4/21, Sy No 519
Saroor Nagar Mandal, Nadargul
Industrial Park, Nadargul, Ranga Reddy,
Telangana, 501510
INDIA

INDUSTRY

Toll Free Number: 1800 123 123 001
Web: www.desmi.com

ENVIRO-CLEAN**DEFENCE & FUEL**

GSTIN: 36AAICD2880J1ZD
CIN: U29120TG2021FTC148226
TAN : HYDD11401F
Bank Account No: 000805024645
Bank Name: ICICI Bank
IFSC Code : ICIC0000008
SWIFT Code : ICICINBBCTS

UTILITY

Price Specification

Pos.	Item	Qty	Unit Price INR		Total Price INR
1	-5 Deg °C Primary Brine Pumps DESMI Vertical Inline Centrifugal Pump ESL40-180N/A12 30.00 m3/h x 26.01 mLC x 2925 rpm Casing Material: Grey Cast Iron (GG20) Impeller Material: NiAlBz (CC333G) Manometer: WITHOUT MANOMETERS Motor: Manufacturers standard OMEC (IEC) MOTOR OMT4A 132 S1-2 5,5KW / 3 x 415V, 50 Hz / IE3 Paint: Blue, Ral 5010 Weight: 77.1 kg	2	154,267.00		308,534.00
2	-10 Deg °C Secondary Brine Pumps DESMI Vertical Inline Centrifugal Pump ESL40-180N/A12 30.00 m3/h x 26.01 mLC x 2925 rpm Casing Material: Grey Cast Iron (GG20) Impeller Material: NiAlBz (CC333G) Manometer: WITHOUT MANOMETERS Motor: Manufacturers standard OMEC (IEC) MOTOR OMT4A 132 S1-2 5,5KW / 3 x 415V, 50 Hz / IE3 Paint: Blue, Ral 5010 Weight: 77.1 kg	1	154,267.00		154,267.00
3	RT Circulation Pumps DESMI Vertical Inline Centrifugal Pump ESL50-180N/A12 45.00 m3/h x 25.12 mLC x 2925 rpm Casing Material: Grey Cast Iron (GG20) Impeller Material: NiAlBz (CC333G) Manometer: WITHOUT MANOMETERS Motor: Manufacturers standard OMEC (IEC) MOTOR OMT4A 132 S1-2 5,5KW / 3 x 415V, 50 Hz / IE3 Paint: Blue, Ral 5010 Weight: 84.1 kg	2	164,770.00		329,540.00

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Pos.	Item	Qty	Unit Price INR		Total Price INR
4	RT Circulation Pumps DESMI Vertical Inline Centrifugal Pump ESL65-180M/A12 60.00 m3/h x 25.34 mLC x 2925 rpm Casing Material: Grey Cast Iron (GG20) Impeller Material: NiAlBz (CC333G) Manometer: WITHOUT MANOMETERS Motor: Manufacturers standard OMEC (IEC) MOTOR OMT4A 132 S2-2 7,5KW / 3 x 415V, 50 Hz / IE3 Paint: Blue, Ral 5010 Weight: 102.7 kg	2	165,491.00		330,982.00
GOODS VALUE:					1,123,323.00
GST: (18 %)					202,198.14
INVOICE TOTAL INCL. GST:					1,325,521.14

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Technical Specification 2

Pos. 1 -5 Deg °C Primary Brine Pumps

General Information

Pump Type	Vertical Inline Centrifugal Pump	Pump	ESL40-180N/A12
Description	The ESL pump is a single suction, single stage centrifugal pump		

Pump Data

Pump Media	Brine	
Density	1.000	kg/l
Viscosity	1.0	cSt
Capacity	30.00	m3/h
Pressure / Head	26.01	mLC
Pump Speed	2925	rpm
Power Consumption	3.25	kW
NPSHr	2.95	mLC
Non-Overload Power	3.72	kW
Eta / Efficiency	65.53	%
Max. Working Pressure	16.00	Bar
Test Pressure	10.00	Bar
Liquid Temperature	- 5	°C
Ambient Temperature	-	°C

Motor Data

Brand	Manufacturers standard OMEC (IEC)
Motor	MOTOR OMT4A 132 S1-2 5,5KW (V1)
Motor Size	132
Efficiency Class	IE3
Performance	5.50 kW
Number of Poles	2
Power Supply	3 x 415V, 50 Hz
Motor Speed	2925 rpm
Insulation Class	F
Motor Enclosure	IP55
Rated Current	10.10 A
Starting Current Ratio	8.30
Cos Phi	0.88
Motor Options Included	-

Max. working pressure; being the pressure at the suction branch and the maximum generated head at zero flow.

If higher working pressure is required, other materials are available upon request.

Test pressure: pump approved by classification societies have been pressure tested according to the requirements of these societies, i.e. a test pressure of 1.5 x working pressure. "The test pressure is stated in the test certificate and stamped on the discharge flange of the pump. Cast iron material for pump body might be acceptable in applications of sea water pumping if following conditions being complied with. - Sea water temperature is less than 15 degrees Celsius - Without cavitation or turbulence corrossions happened - Without abrasive particles in pumping liquid- Other general requirements to pump operation- Otherwise please change material to bronze or stainless steel. "

Specification

Pump Casing	Grey Cast Iron (GG20)
Suction/Discharge	40/40 mm. EN1092-2
Flanges	PN10/16
Impeller	NiAlBz (CC333G)
Impeller Diameter	157.00 mm
Wear Ring	N/A
Shaft	Duplex Stainless Steel (AISI329)
Mechanical Shaft Seal	DS B-CAR-CERAMIC-NITRILE Ø28
Bearing	Without bearing
Coupling	Rigid close Coupled

Rotation	Clockwise (Seen from drive end)
Priming Unit	-
Manometer	WITHOUT MANOMETERS
Max Grain Size	6.00 mm
Color Specification	Blue, Ral 5010
Paint Procedure	DESMI Standard
Class Society Test	-
Test Grade	-
Variable-frequency drive	-

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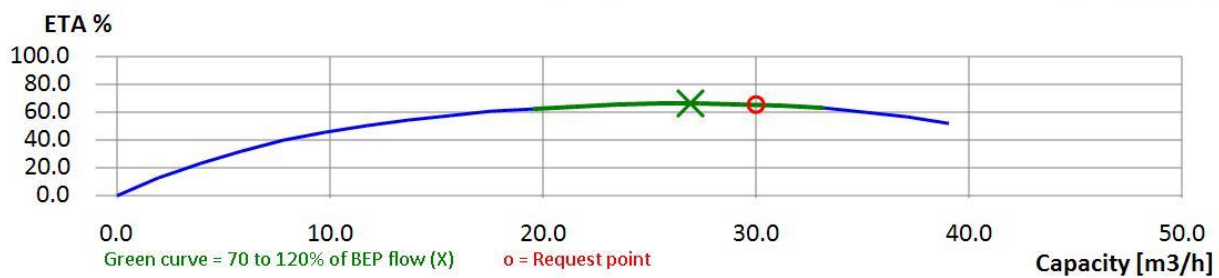
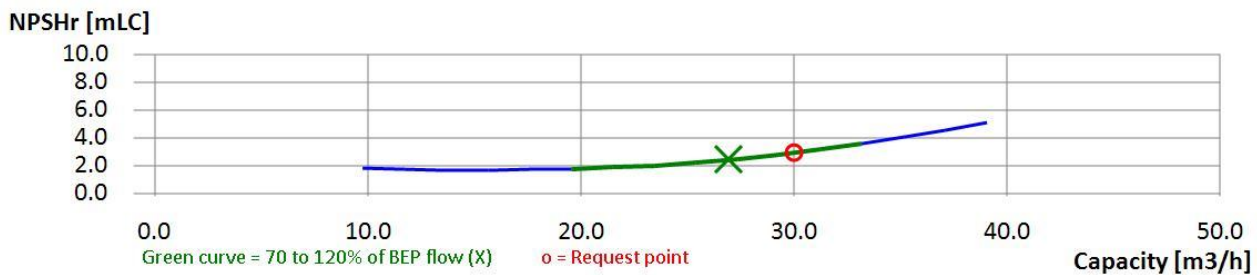
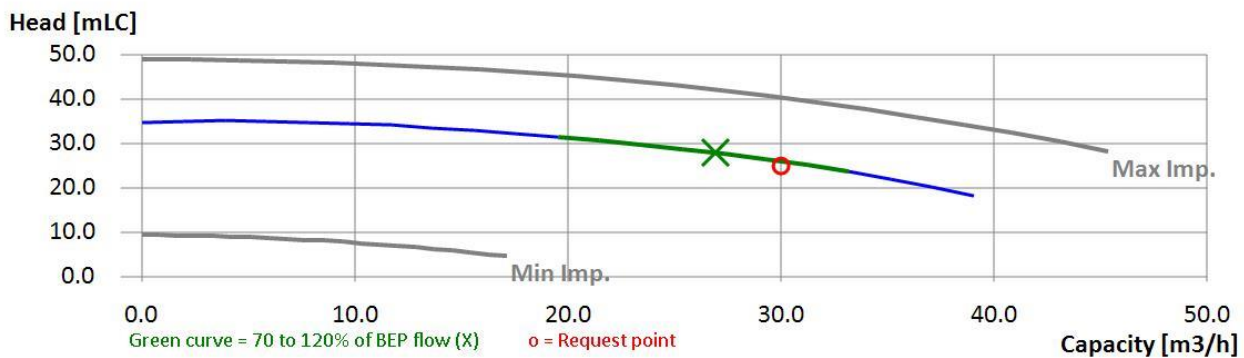
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Pos. 1 -5 Deg °C Primary Brine Pumps - Pump Curves

According to ISO 9906 Grade 2B CF



Duty 1) ESL40-180N, Q: 30.00 m3/h, H: 26.01 mLC, Power: 3.24 kW, NPSHr: 2.94 mLC, Eta/Eff.: 65.53 % , Imp. Dia: 157.00 mm, Speed: 2925 rpm, Density: 1.000 kg/l
BEP 1) ESL40-180N Q: 26.95 m3/h, H: 27.93 mLC, Power: 3.10 kW, NPSHr: 2.44 mLC, Eta/Eff.: 66.26 %, shut off pressure: 34.83 mLC

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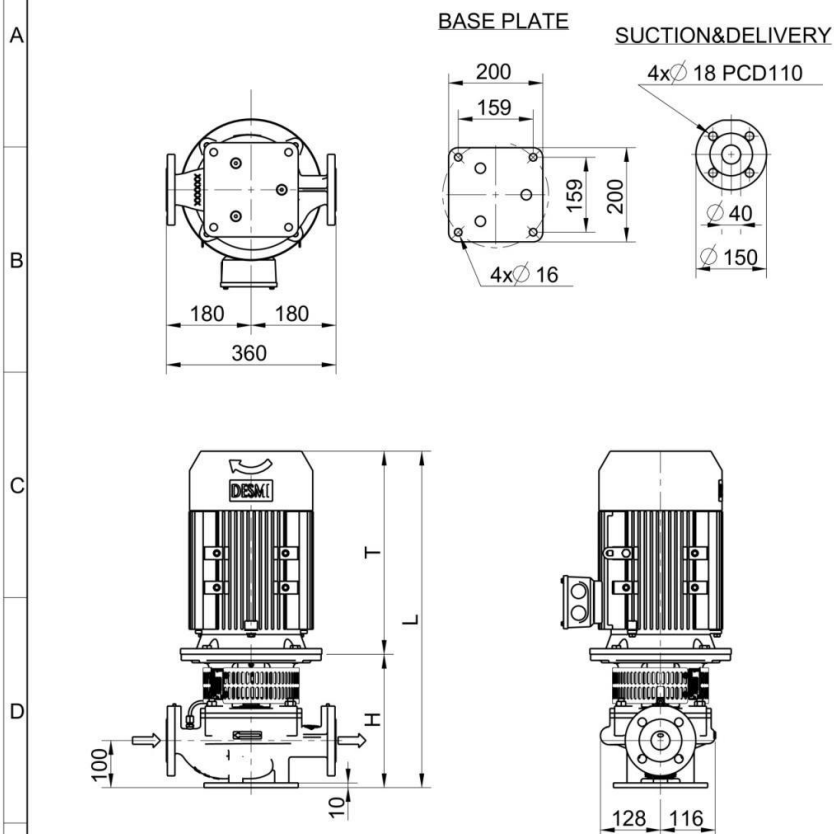
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SWIFT Code : ICICINBBCTS

UTILITY



Pos. 1 -5 Deg °C Primary Brine Pumps - Dimensional Drawing

NOTES: FLANGES ACC. TO EN1092 PN10



T
390.00 mm
L
673.00 mm
H
283.00 mm
Motor weight
40.5 kg
Pump weight
36.6 kg
Unit weight
77.11 kg

Hist. Rev.	Description of Revision	Released date
-	-	-
All dimensions are in mm unless otherwise specified.		
Remove burrs. Break sharp edges. Non-stated tolerances acc. to: EN 22768-mK (machined parts), EN ISO 13920-BF (welded parts), ISO 8062-CT10 (casted parts) max. mismatch 1 mm and acc. to quality instruction QI314.	Drawn	KAWA
	Checked	WJI
	Process	
	Approved	
 www.desmi.com © DESMI ALL RIGHTS RESERVED	Date	2018.5.18
	State	
	Revision	Description of Revision
ESL40-180N/-12		
CREAT NEW DRAWING		
Drawing No. 494240		

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Technical Specification 2

Pos. 2 -10 Deg °C Secondary Brine Pumps

General Information

Pump Type	Vertical Inline Centrifugal Pump	Pump	ESL40-180N/A12
Description	The ESL pump is a single suction, single stage centrifugal pump		

Pump Data

Pump Media	Brine	
Density	1.000	kg/l
Viscosity	1.0	cSt
Capacity	30.00	m3/h
Pressure / Head	26.01	mLC
Pump Speed	2925	rpm
Power Consumption	3.25	kW
NPSHr	2.95	mLC
Non-Overload Power	3.72	kW
Eta / Efficiency	65.53	%
Max. Working Pressure	16.00	Bar
Test Pressure	10.00	Bar
Liquid Temperature	- 10	°C
Ambient Temperature	-	°C

Motor Data

Brand	Manufacturers standard OMEC (IEC)
Motor	MOTOR OMT4A 132 S1-2 5,5KW (V1)
Motor Size	132
Efficiency Class	IE3
Performance	5.50 kW
Number of Poles	2
Power Supply	3 x 415V, 50 Hz
Motor Speed	2925 rpm
Insulation Class	F
Motor Enclosure	IP55
Rated Current	10.10 A
Starting Current Ratio	8.30
Cos Phi	0.88
Motor Options Included	-

Max. working pressure; being the pressure at the suction branch and the maximum generated head at zero flow.

If higher working pressure is required, other materials are available upon request.

Test pressure: pump approved by classification societies have been pressure tested according to the requirements of these societies, i.e. a test pressure of 1.5 x working pressure. "The test pressure is stated in the test certificate and stamped on the discharge flange of the pump. Cast iron material for pump body might be acceptable in applications of sea water pumping if following conditions being complied with. - Sea water temperature is less than 15 degrees Celsius - Without cavitation or turbulence corrossions happened - Without abrasive particles in pumping liquid- Other general requirements to pump operation- Otherwise please change material to bronze or stainless steel. "

Specification

Pump Casing	Grey Cast Iron (GG20)
Suction/Discharge	40/40 mm. EN1092-2
Flanges	PN10/16
Impeller	NiAlBz (CC333G)
Impeller Diameter	157.00 mm
Wear Ring	N/A
Shaft	Duplex Stainless Steel (AISI329)
Mechanical Shaft Seal	DS B-CAR-CERAMIC-NITRILE Ø28
Bearing	Without bearing
Coupling	Rigid close Coupled

Rotation	Clockwise (Seen from drive end)
Priming Unit	-
Manometer	WITHOUT MANOMETERS
Max Grain Size	6.00 mm
Color Specification	Blue, Ral 5010
Paint Procedure	DESMI Standard
Class Society Test	-
Test Grade	-
Variable-frequency drive	-

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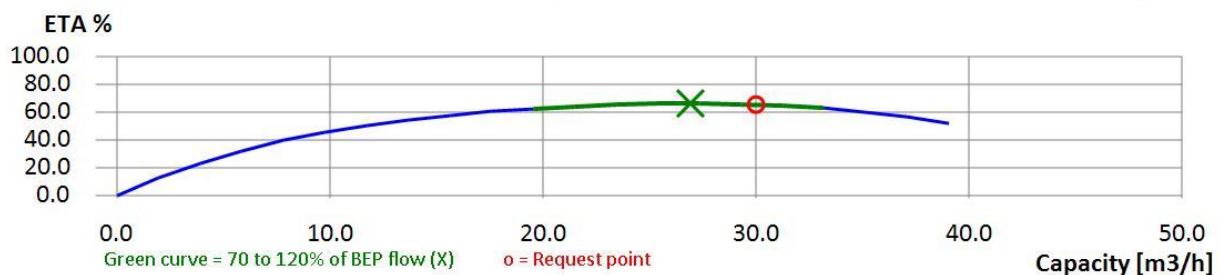
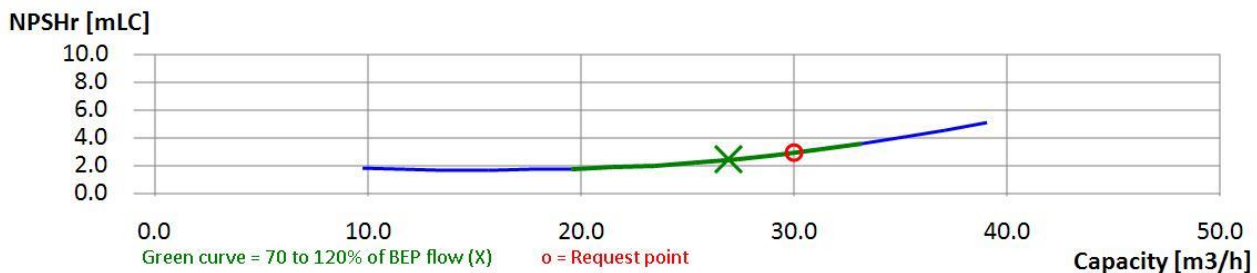
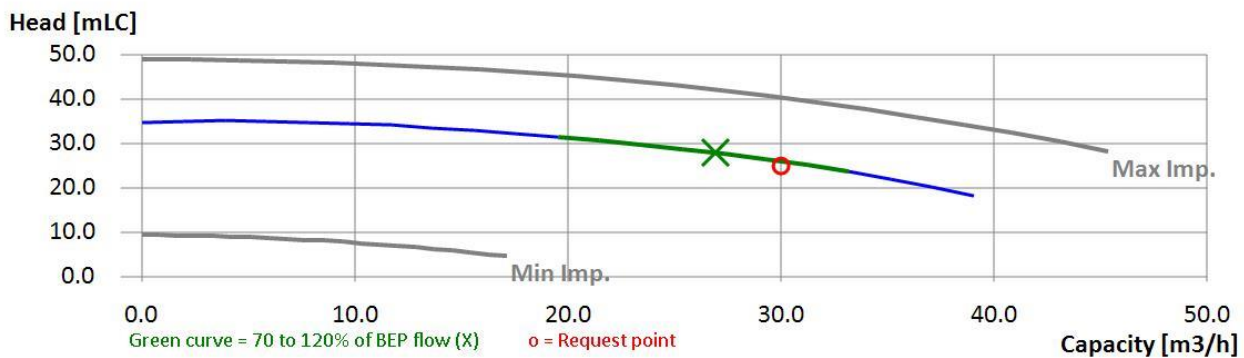
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Bank Name: ICICI Bank
IFSC Code : ICIC0000008
SWIFT Code : ICICINBBCTS

UTILITY



Pos. 2 -10 Deg °C Secondary Brine Pumps - Pump Curves

According to ISO 9906 Grade 2B CF



Duty 1) ESL40-180N, Q: 30.00 m³/h, H: 26.01 mLC, Power: 3.24 kW, NPSHr: 2.94 mLC, Eta/Eff.: 65.53 %, Imp. Dia: 157.00 mm, Speed: 2925 rpm, Density: 1.000 kg/l
BEP 1) ESL40-180N Q: 26.95 m³/h, H: 27.93 mLC, Power: 3.10 kW, NPSHr: 2.44 mLC, Eta/Eff.: 66.26 %, shut off pressure: 34.83 mLC

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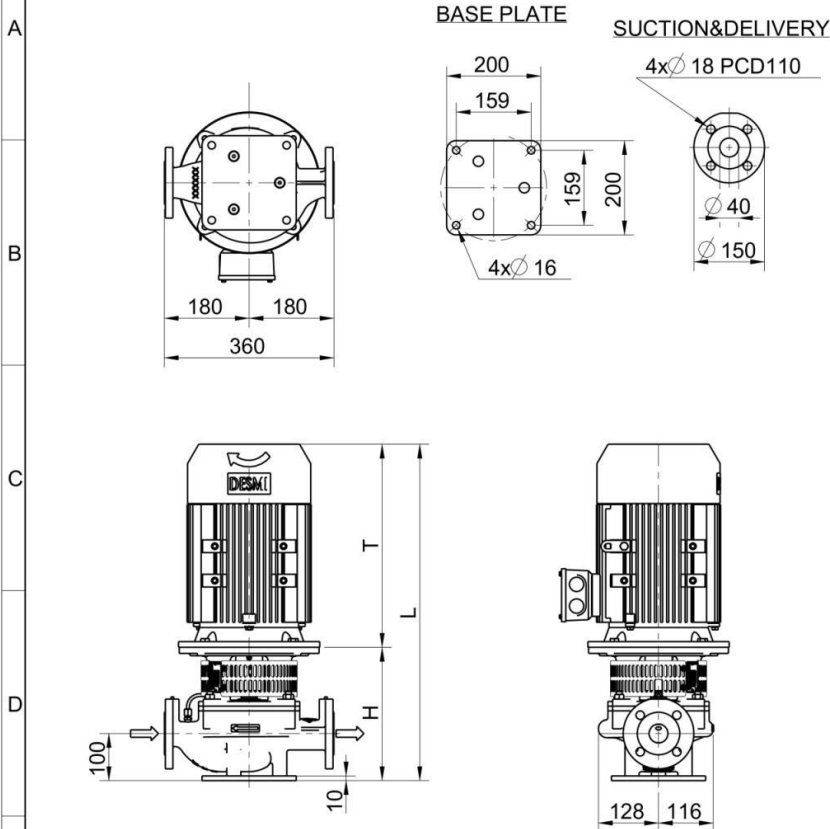
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UTILITY



Pos. 2 -10 Deg °C Secondary Brine Pumps - Dimensional Drawing

NOTES: FLANGES ACC. TO EN1092 PN10



T
390.00 mm
L
673.00 mm
H
283.00 mm
Motor weight
40.5 kg
Pump weight
36.6 kg
Unit weight
77.11 kg

Hist. Rev.	Description of Revision	Released date
-	-	-
All dimensions are in mm unless otherwise specified.		
Remove burrs. Break sharp edges. Non-stated tolerances acc. to: EN 22768-mK (machined parts), EN ISO 13920-BF (welded parts), ISO 8062-CT10 (casted parts) max. mismatch 1 mm and acc. to quality instruction QI314.	Drawn	KAWA
	Checked	WJI
	Process	
	Approved	
 www.desmi.com © DESMI ALL RIGHTS RESERVED	Date	2018.5.18
	State	
	Revision	Description of Revision
CREAT NEW DRAWING		
Drawing No. 494240		

SIZE: A4 (210×297)

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Technical Specification 2

Pos. 3 RT Circulation Pumps

General Information

Pump Type	Vertical Inline Centrifugal Pump	Pump	ESL50-180N/A12
Description	The ESL pump is a single suction, single stage centrifugal pump		

Pump Data

Pump Media	Water	
Density	1.000	kg/l
Viscosity	1.0	cSt
Capacity	45.00	m3/h
Pressure / Head	25.12	mLC
Pump Speed	2925	rpm
Power Consumption	4.43	kW
NPSHr	3.06	mLC
Non-Overload Power	4.84	kW
Eta / Efficiency	69.56	%
Max. Working Pressure	16.00	Bar
Test Pressure	10.00	Bar
Liquid Temperature	32 - 50	°C
Ambient Temperature	-	°C

Motor Data

Brand	Manufacturers standard OMEC (IEC)
Motor	MOTOR OMT4A 132 S1-2 5,5KW (V1)
Motor Size	132
Efficiency Class	IE3
Performance	5.50 kW
Number of Poles	2
Power Supply	3 x 415V, 50 Hz
Motor Speed	2925 rpm
Insulation Class	F
Motor Enclosure	IP55
Rated Current	10.10 A
Starting Current Ratio	8.30
Cos Phi	0.88
Motor Options Included	-

Max. working pressure; being the pressure at the suction branch and the maximum generated head at zero flow.

If higher working pressure is required, other materials are available upon request.

Test pressure: pump approved by classification societies have been pressure tested according to the requirements of these societies, i.e. a test pressure of 1.5 x working pressure. "The test pressure is stated in the test certificate and stamped on the discharge flange of the pump. Cast iron material for pump body might be acceptable in applications of sea water pumping if following conditions being complied with. - Sea water temperature is less than 15 degrees Celsius - Without cavitation or turbulence corrossions happened - Without abrasive particles in pumping liquid- Other general requirements to pump operation- Otherwise please change material to bronze or stainless steel. "

Specification

Pump Casing	Grey Cast Iron (GG20)
Suction/Discharge	50/50 mm. EN1092-2
Flanges	PN10/16
Impeller	NiAlBz (CC333G)
Impeller Diameter	153.00 mm
Wear Ring	N/A
Shaft	Duplex Stainless Steel (AISI329)
Mechanical Shaft Seal	DS B-CAR-CERAMIC-NITRILE Ø28
Bearing	Without bearing
Coupling	Rigid close Coupled

Rotation	Clockwise (Seen from drive end)
Priming Unit	-
Manometer	WITHOUT MANOMETERS
Max Grain Size	9.00 mm
Color Specification	Blue, Ral 5010
Paint Procedure	DESMI Standard
Class Society Test	-
Test Grade	-
Variable-frequency drive	-

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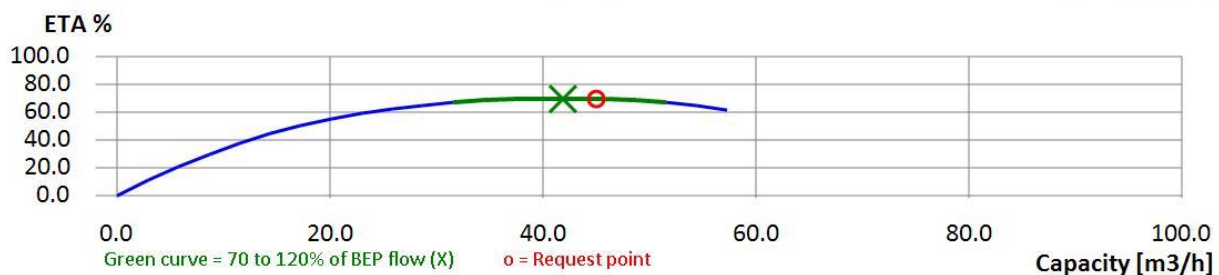
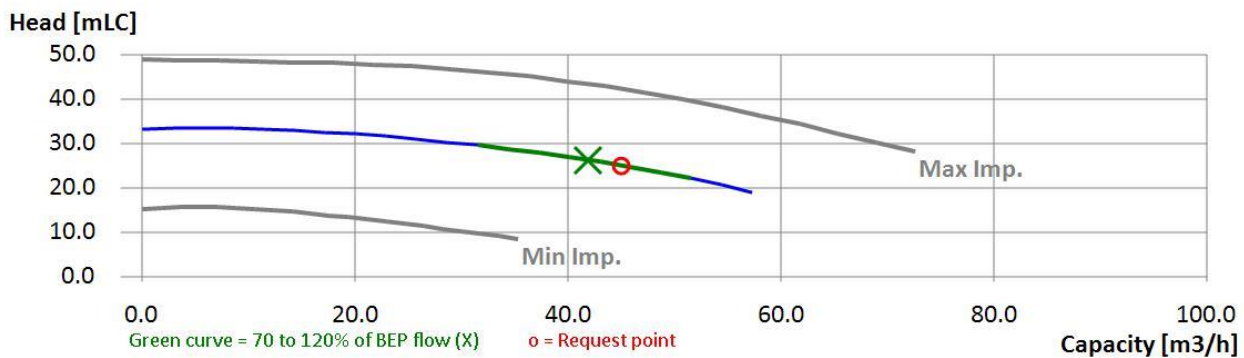
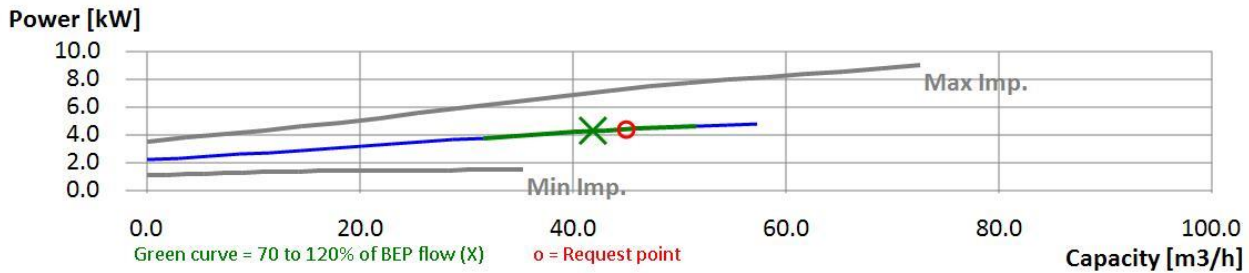
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UTILITY



Pos. 3 RT Circulation Pumps - Pump Curves

According to ISO 9906 Grade 2B CF



Duty 1) ESL50-180N, Q: 45.00 m³/h, H: 25.12 mLC, Power: 4.43 kW, NPSHr: 3.06 mLC, Eta/Eff.: 69.56 % , Imp. Dia: 153.00 mm, Speed: 2925 rpm, Density: 1.000 kg/l
BEP 1) ESL50-180N Q: 41.84 m³/h, H: 26.34 mLC, Power: 4.30 kW, NPSHr: 2.80 mLC, Eta/Eff.: 69.85 %, shut off pressure: 33.31 mLC

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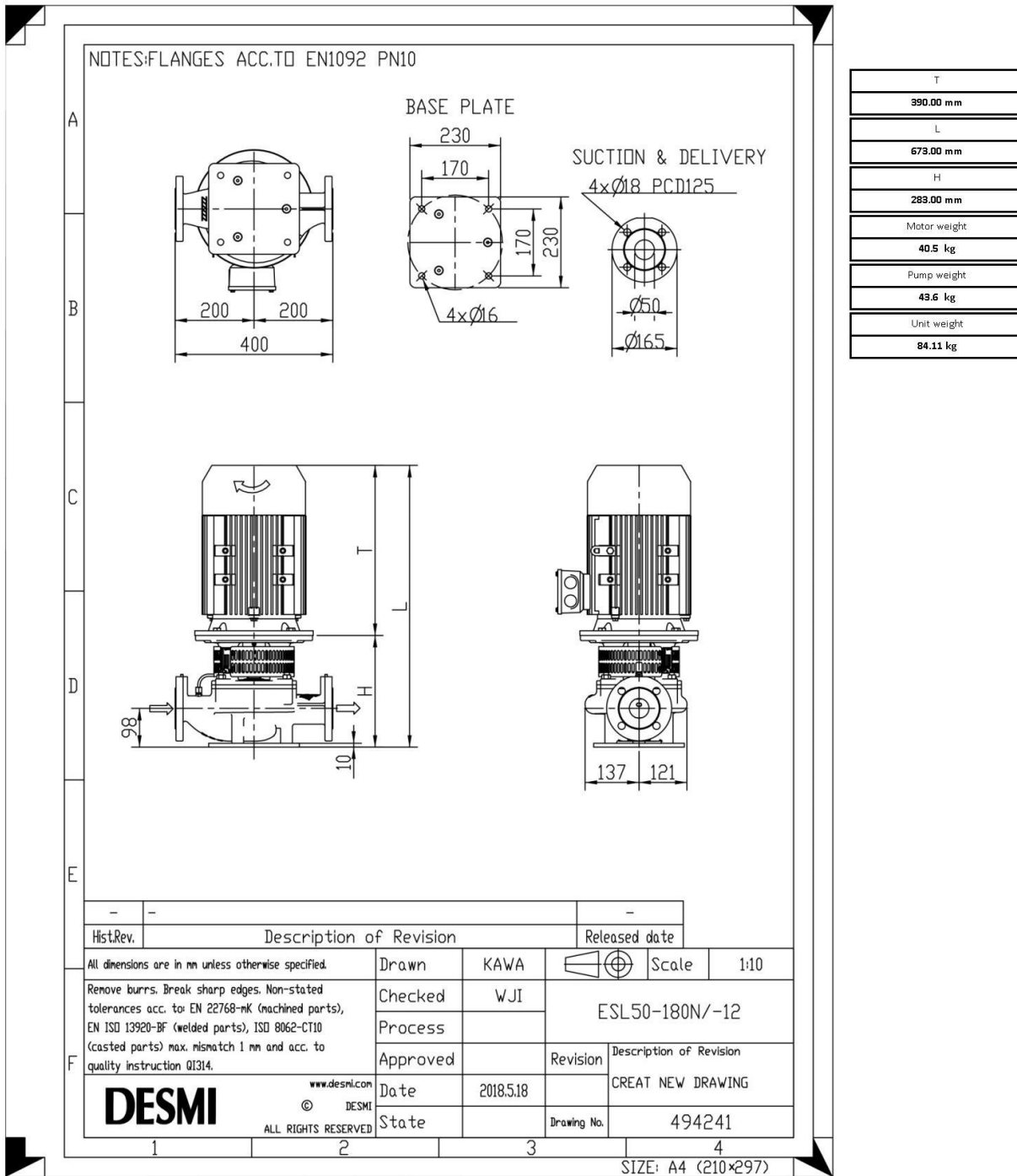
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UTILITY



Pos. 3 RT Circulation Pumps - Dimensional Drawing



MARINE & OFFSHORE

DESMI INDIA PRIVATE LIMITED
(Formerly DESMI India LLP)
Plot.No 4/20 4/21, Sy No 519
Saroor Nagar Mandal, Nadargul
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INDIA

INDUSTRY

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UTILITY

GSTIN: 36AAICD2880J1ZD
CIN: U29120TG2021FTC148226
TAN: HYDD11401F
Bank Account No: 000805024645
Bank Name: ICICI Bank
IFSC Code: ICIC0000008
SWIFT Code: ICICINBBCTS



Technical Specification 2

Pos. 4 RT Circulation Pumps

General Information

Pump Type	Vertical Inline Centrifugal Pump	Pump	ESL65-180M/A12
Description	The ESL pump is a single suction, single stage centrifugal pump		

Pump Data

Pump Media	Water	
Density	1.000	kg/l
Viscosity	1.0	cSt
Capacity	60.00	m3/h
Pressure / Head	25.34	mLC
Pump Speed	2925	rpm
Power Consumption	5.54	kW
NPSHr	2.75	mLC
Non-Overload Power	5.79	kW
Eta / Efficiency	74.72	%
Max. Working Pressure	10.00	Bar
Test Pressure	10.00	Bar
Liquid Temperature	32 - 50	°C
Ambient Temperature	-	°C

Motor Data

Brand	Manufacturers standard OMEC (IEC)
Motor	MOTOR OMT4A 132 S2-2 7,5KW (V1)
Motor Size	132
Efficiency Class	IE3
Performance	7.50 kW
Number of Poles	2
Power Supply	3 x 415V, 50 Hz
Motor Speed	2925 rpm
Insulation Class	F
Motor Enclosure	IP55
Rated Current	13.70 A
Starting Current Ratio	7.90
Cos Phi	0.88
Motor Options Included	-

Max. working pressure; being the pressure at the suction branch and the maximum generated head at zero flow.

If higher working pressure is required, other materials are available upon request.

Test pressure: pump approved by classification societies have been pressure tested according to the requirements of these societies, i.e. a test pressure of 1.5 x working pressure. "The test pressure is stated in the test certificate and stamped on the discharge flange of the pump. Cast iron material for pump body might be acceptable in applications of sea water pumping if following conditions being complied with. - Sea water temperature is less than 15 degree Celsius - Without cavitation or turbulence corrossions happened - Without abrasive particles in pumping liquid- Other general requirements to pump operation- Otherwise please change material to bronze or stainless steel. "

Specification

Pump Casing	Grey Cast Iron (GG20)
Suction/Discharge	65/65 mm. EN1092-2
Flanges	PN10/16
Impeller	NiAlBz (CC333G)
Impeller Diameter	160.00 mm
Wear Ring	NiAlBz (CC333G)
Shaft	Duplex Stainless Steel (AISI329)
Mechanical Shaft Seal	NITRILE Ø28
Bearing	Without bearing
Coupling	Rigid close Coupled

Rotation	Clockwise (Seen from drive end)
Priming Unit	-
Manometer	WITHOUT MANOMETERS
Max Grain Size	11.00 mm
Color Specification	Blue, Ral 5010
Paint Procedure	DESMI Standard
Class Society Test	-
Test Grade	-
Variable-frequency drive	-

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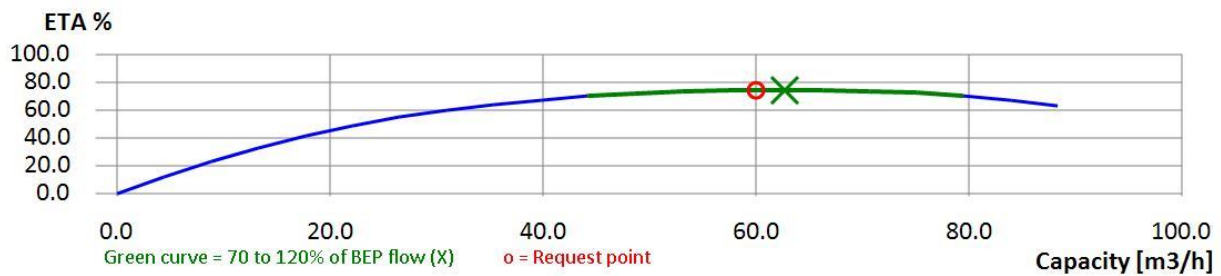
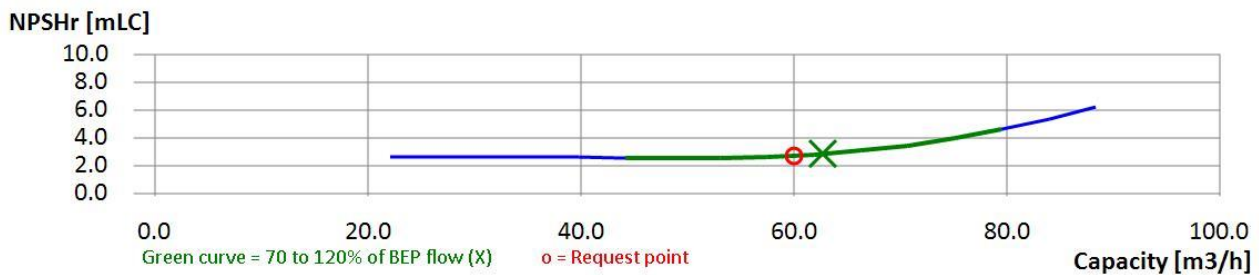
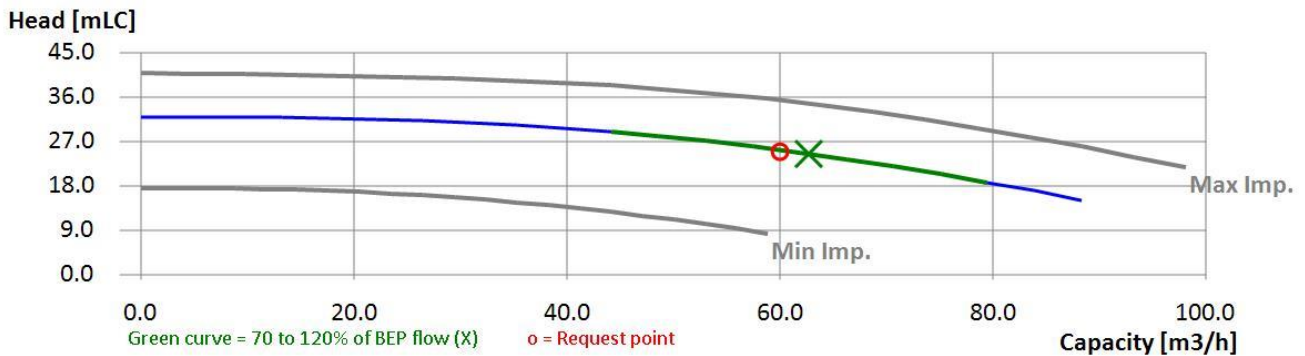
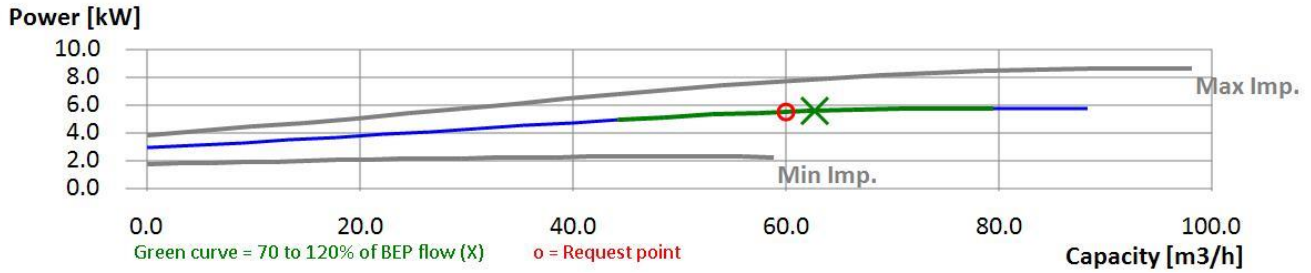
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Pos. 4 RT Circulation Pumps - Pump Curves

According to ISO 9906 Grade 2B CF



Duty 1) ESL65-180M, Q: 60.00 m3/h, H: 25.34 mLC, Power: 5.54 kW, NPSHr: 2.75 mLC, Eta/Eff.: 74.72 %, Imp. Dia: 160.00 mm, Speed: 2925 rpm, Density: 1.000 kg/l
BEP 1) ESL65-180M Q: 62.72 m3/h, H: 24.56 mLC, Power: 5.61 kW, NPSHr: 2.87 mLC, Eta/Eff.: 74.80 %, shut off pressure: 32.00 mLC

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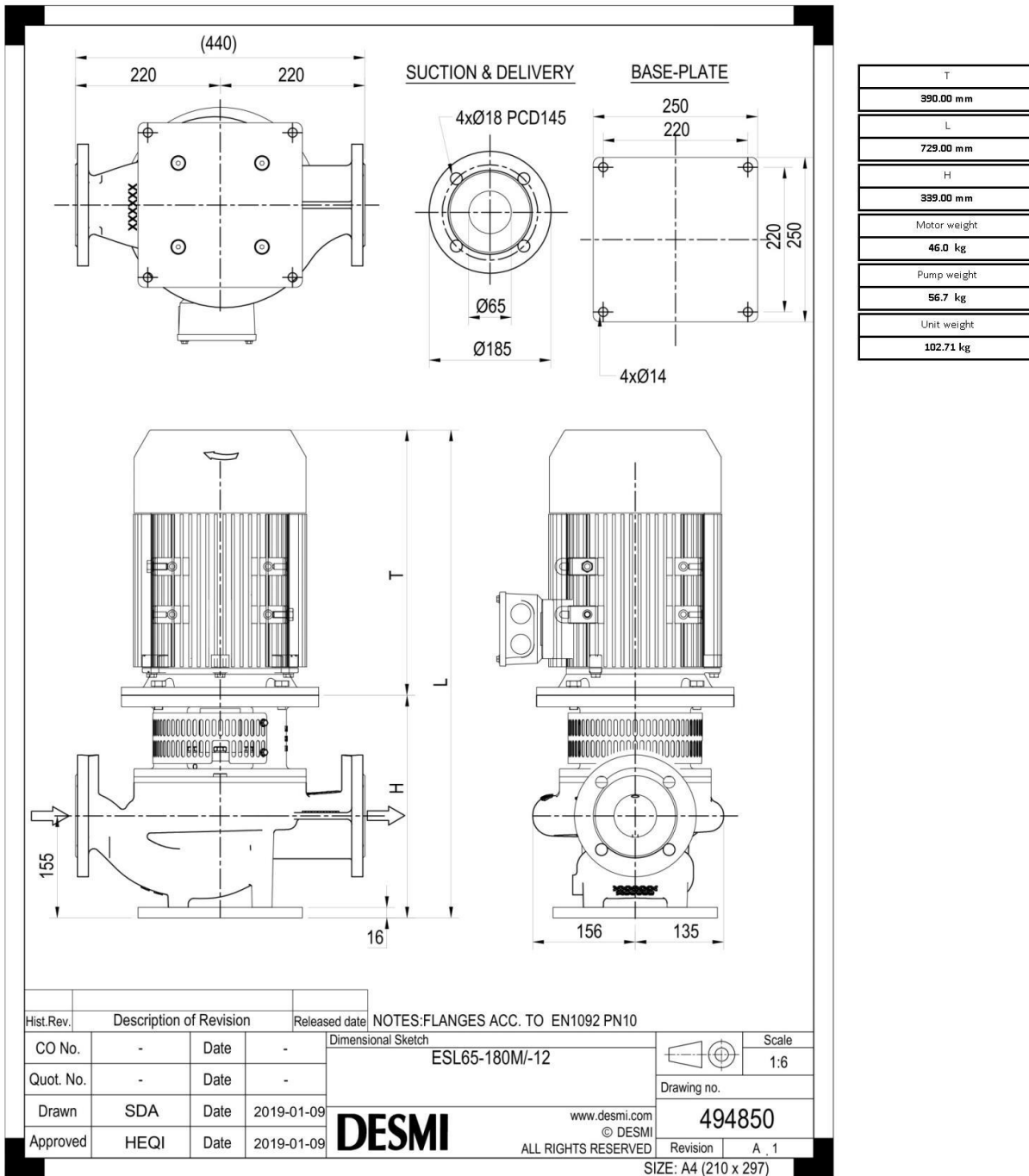
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Methanol Pumps

NEW

Leakage-free Methanol Pumps enable Safe Alternative Fuel Solutions

DESMI's high-efficient & reliable Methanol Pumps are revolutionising the safe handling of alternative fuels. Due to its seal-less design, the mag-drive pump is the perfect match when handling new marine fuels, as they can be environmentally sensitive.

FUEL SUPPLY SYSTEM

Methanol Fuel Supply System

- Vital for green vessel propulsion.
- Components designed for the marine environment.
- DESMI offers a full range of specialized pumps, including booster, drainings, water heating, etc.

TRANSFER

Methanol Transfer

- Essential for green fuel systems.
- DESMI's high-performance transfer pumps.
- Comprehensive range of specialized pumps available.

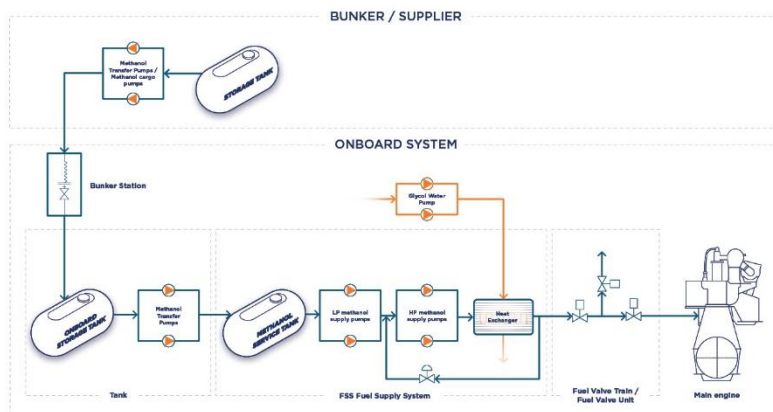
BUNKER

Methanol Bunkering

- Crucial in the transition to Green Methanol.
- DESMI's magnetic-driven pumps ensure safety and reliability.
- Your partner for clean, alternative fuel bunkering.



METHANOL PUMPS FOR ALL SYSTEMS



- ✓ Leak Prevention
- ✓ Reduced Friction
- ✓ Improved Reliability
- ✓ Low Maintenance
- ✓ Energy Efficiency
- ✓ Enhanced Safety
- ✓ Quiet Operation
- ✓ Environmental Benefits



Scan the QR code for more information on Methanol pumps

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PROVEN TECHNOLOGY

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